

FIG. 1

Wax Domain Size as a Function of
Percent Added Wax in Uncompatibilized Toner

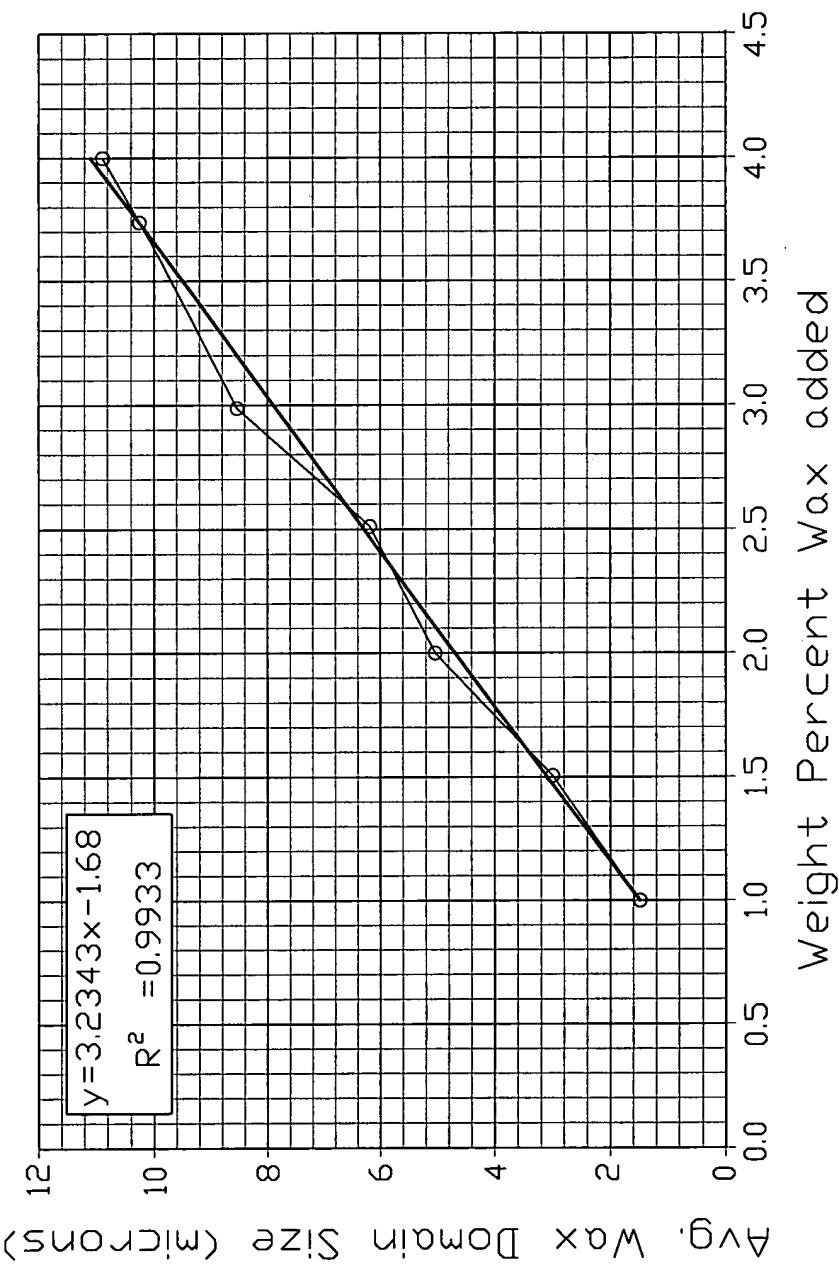


Figure 2

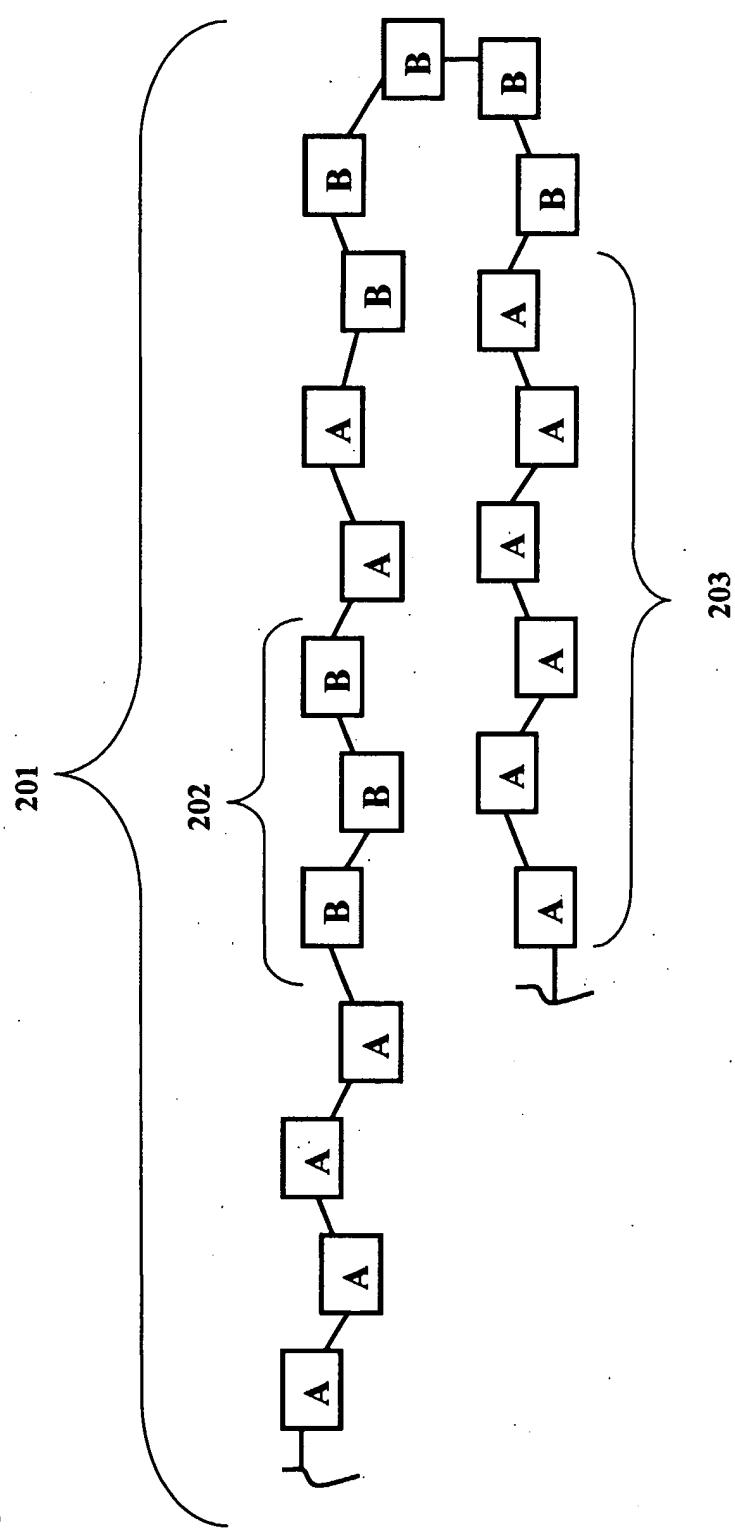


Figure 3

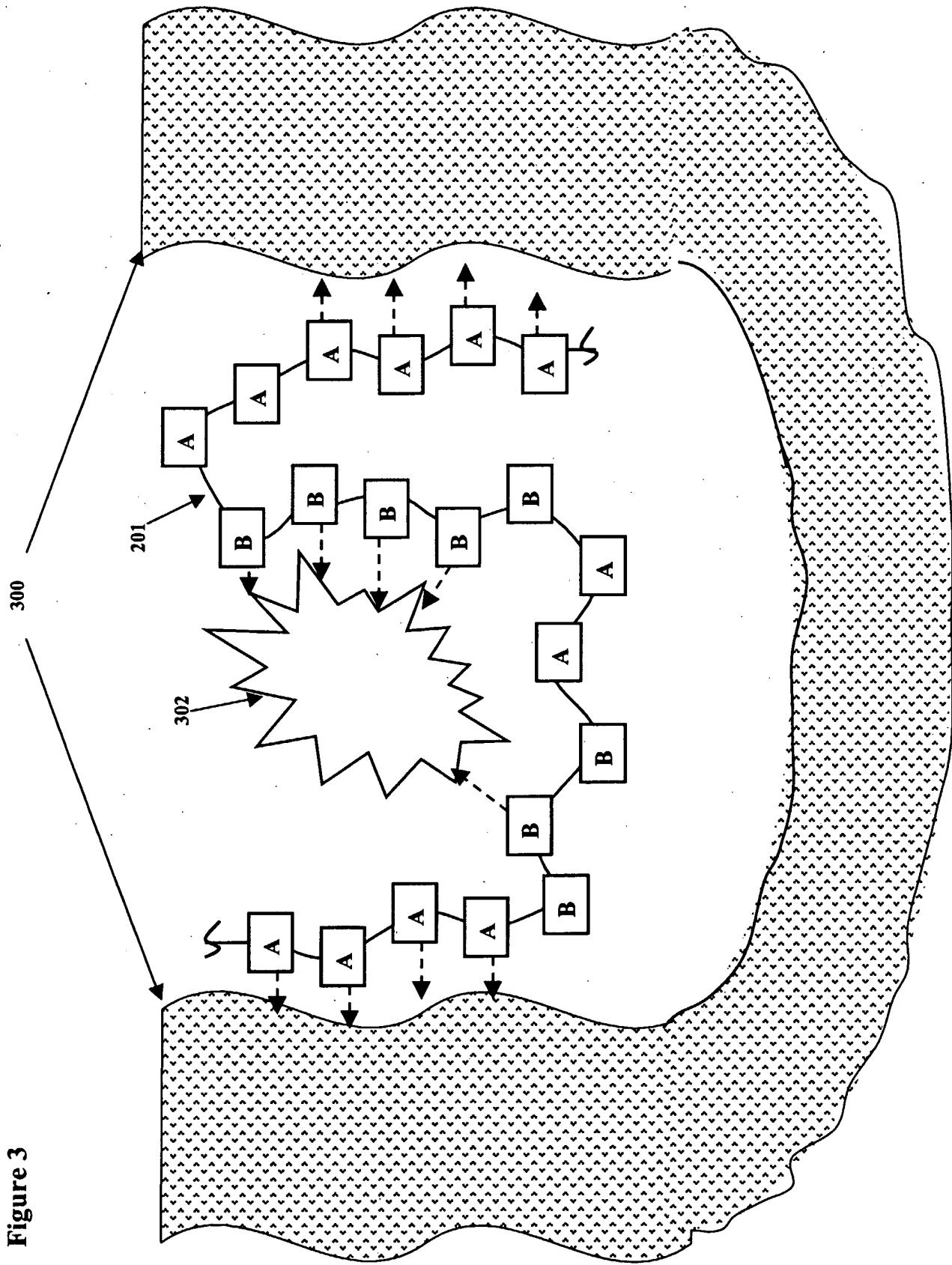


FIG. 4a

Example Number	Base Resin
1	100 parts (weight) Styrene/Acrylic random copolymer 80/20
2	Same as example 1
3	Same as example 1
4	Same as example 1
5	Same as example 1

FIG. 4b

Wax Additive	Random Copolymer (compatibilizer)
4 parts (weight) polyethylene wax	2 parts (weight) 81/19 wt. % ethylene/n-butyl acrylate random copolymer (high molecular weight)
Same as example 1	3 parts (weight) 81/19 wt. % ethylene/n-butyl acrylate random copolymer (low molecular weight)
4 parts polypropylene wax	2.5 parts (weight) 81/19 wt. % ethylene/n-butyl acrylate random copolymer (high molecular weight)
Same as example 1	2.5 parts (weight) 60/20/20 weight ratio ethylene/ethyl acrylate-graft- polystyrene copolymer (high molecular weight)
3 parts (weight) polyethylene wax	1.5 parts (weight) 81/19 wt. % ethylene/n-butyl acrylate random copolymer (high molecular weight)

FIG. 4c

Other Additives	Maximum Wax Domain Size (microns)
Carbon black or magnetite, proprietary materials of charge control and control of other toner properties.	3.5
Same as example 1	5.5
Same as example 1	4.5
Same as example 1	2.3
Same as example 1	2.5

FIG. 5a

Example Number	Base Resin
6	100 parts (weight) Styrene/Acrylic random copolymer 80/20
7	100 parts (weight) Styrene/Acrylic random copolymer 80/20
8	100 parts (weight) Styrene/Acrylic random copolymer 80/20
9	100 parts (weight) Styrene/Acrylic random copolymer 80/20

FIG. 5b

Wax	Additive	Random Copolymer (compatibilizer)
4 parts (weight)		3 parts (weight)
polyethylene wax		30/70 wt. % ethylene/n-butyl acrylate random copolymer (high molecular weight)
2.5 parts (weight)		1.0 parts (weight)
polyethylene wax		60/20 wt. % ethylene/ethyl acrylate/ styrene random copolymer (high molecular weight)
4 parts (weight)		3 parts (weight)
polyethylene wax		55/15/30 wt. % ethylene/glycidyl methacrylate/styrene random copolymer (high molecular weight)
4 parts (weight)		3 parts (weight)
polyethylene wax		55/15/30 wt. % ethylene/glycidyl methacrylate/styrene random copolymer (high molecular weight)

FIG. 5c

Other Additives	Performance as a toner resin
Carbon black or magnetite, proprietary materials of charge control and control of other toner properties	satisfactory
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Carbon black or magnetite, proprietary materials of charge control and control of other toner properties	satisfactory
Carbon black or magnetite, proprietary materials of charge control and control of other toner properties	satisfactory